

FIG. 1

SELECT A LARGE PRIME p , AND
GROUPS G_1 AND G_2 OF ORDER p THAT ARE
EQUIPPED WITH A BILINEAR PAIRING e

SUCH THAT $e: G_1 \times G_1 \rightarrow G_2$

(E.G., SELECT AN APPROPRIATE CURVE E
OVER A FIELD F_q SUCH THAT

$E(F_q)$ HAS A SUBGROUP G_1 OF ORDER p ,

WHERE e IS THE TATE OR WEIL PAIRING

FROM $G_1 \times G_1$ TO A GROUP G_2 OF ORDER p)

~18

SELECT A GENERATOR $g \in G_1$

~20

CONSTRUCT A DESCRIPTION OF
 p, e, G_1, G_2 , AND g

~22

FIG. 2

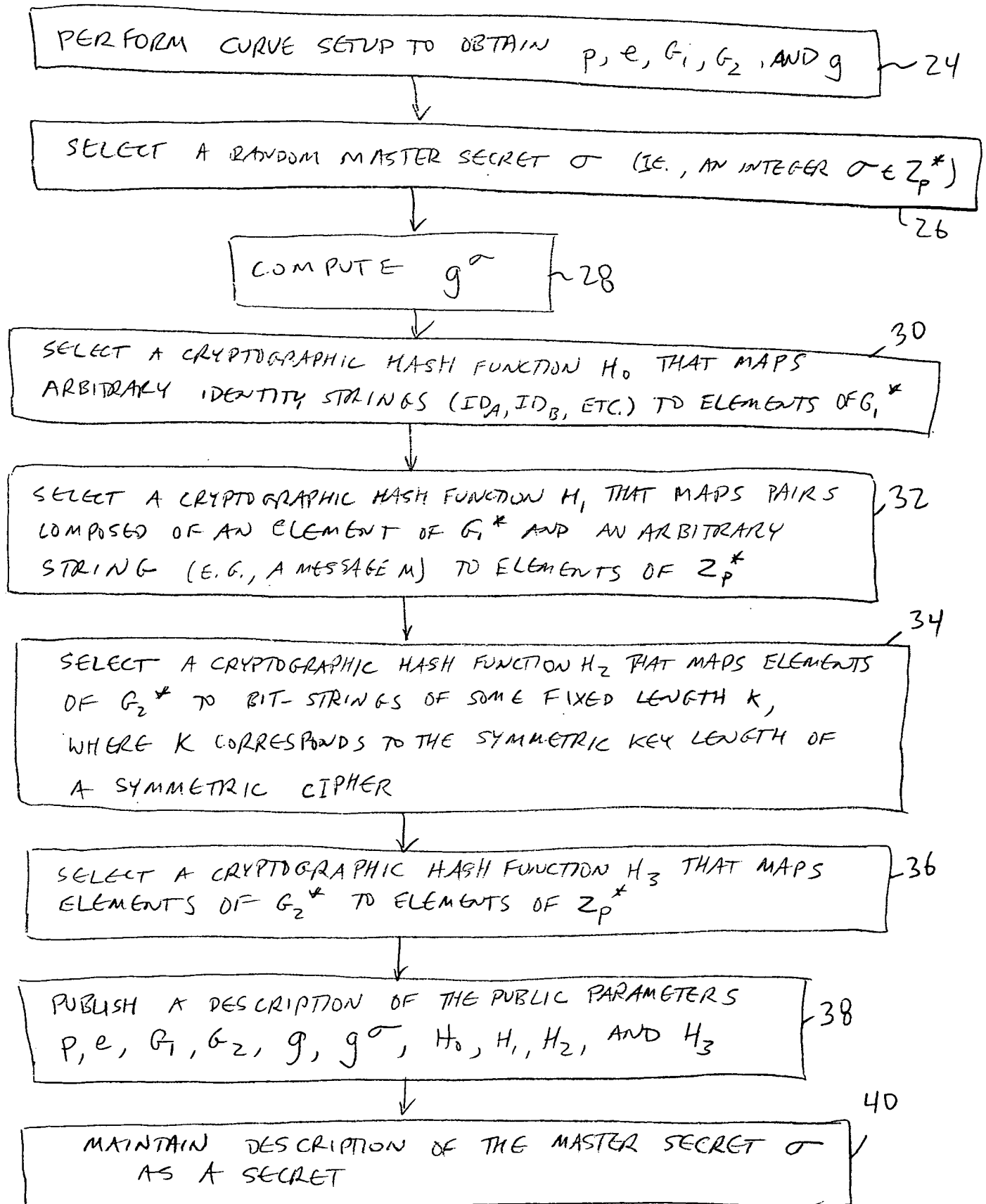


FIG. 3

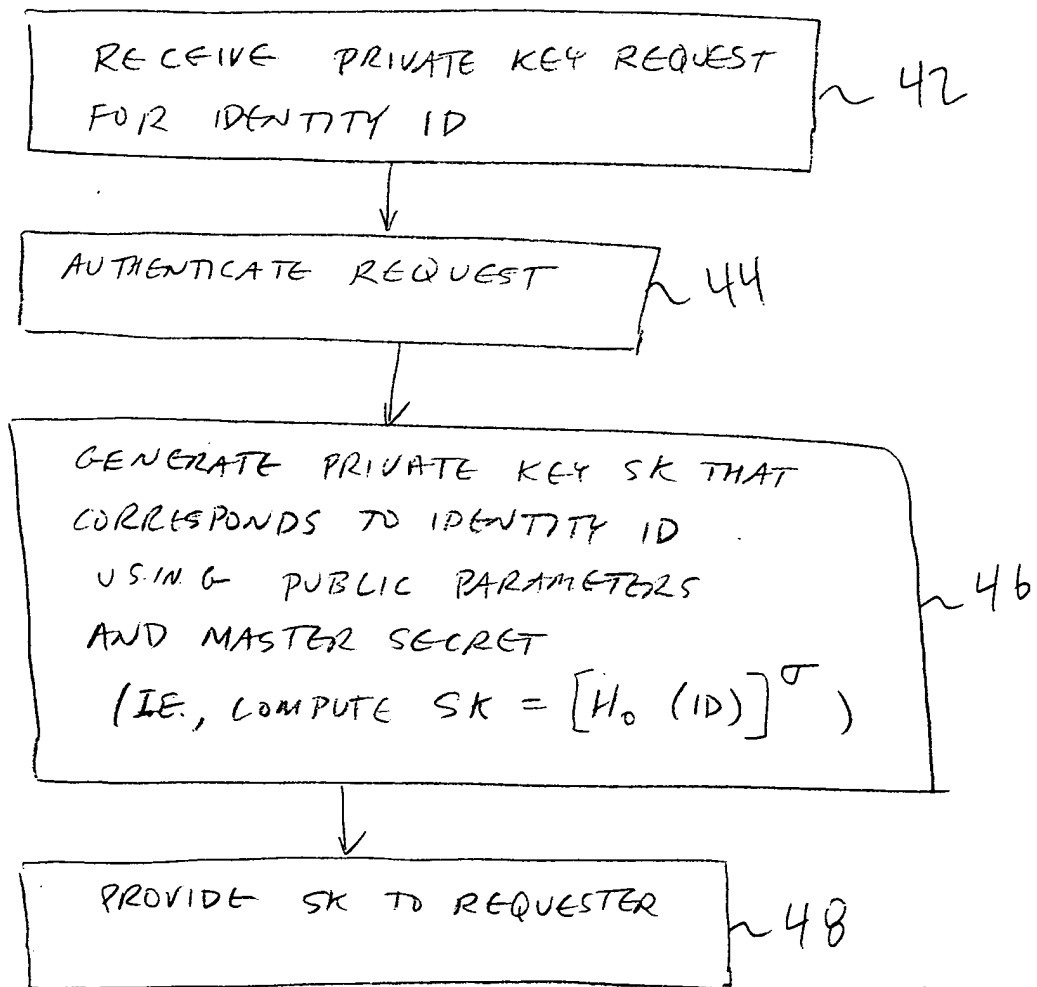


FIG. 4

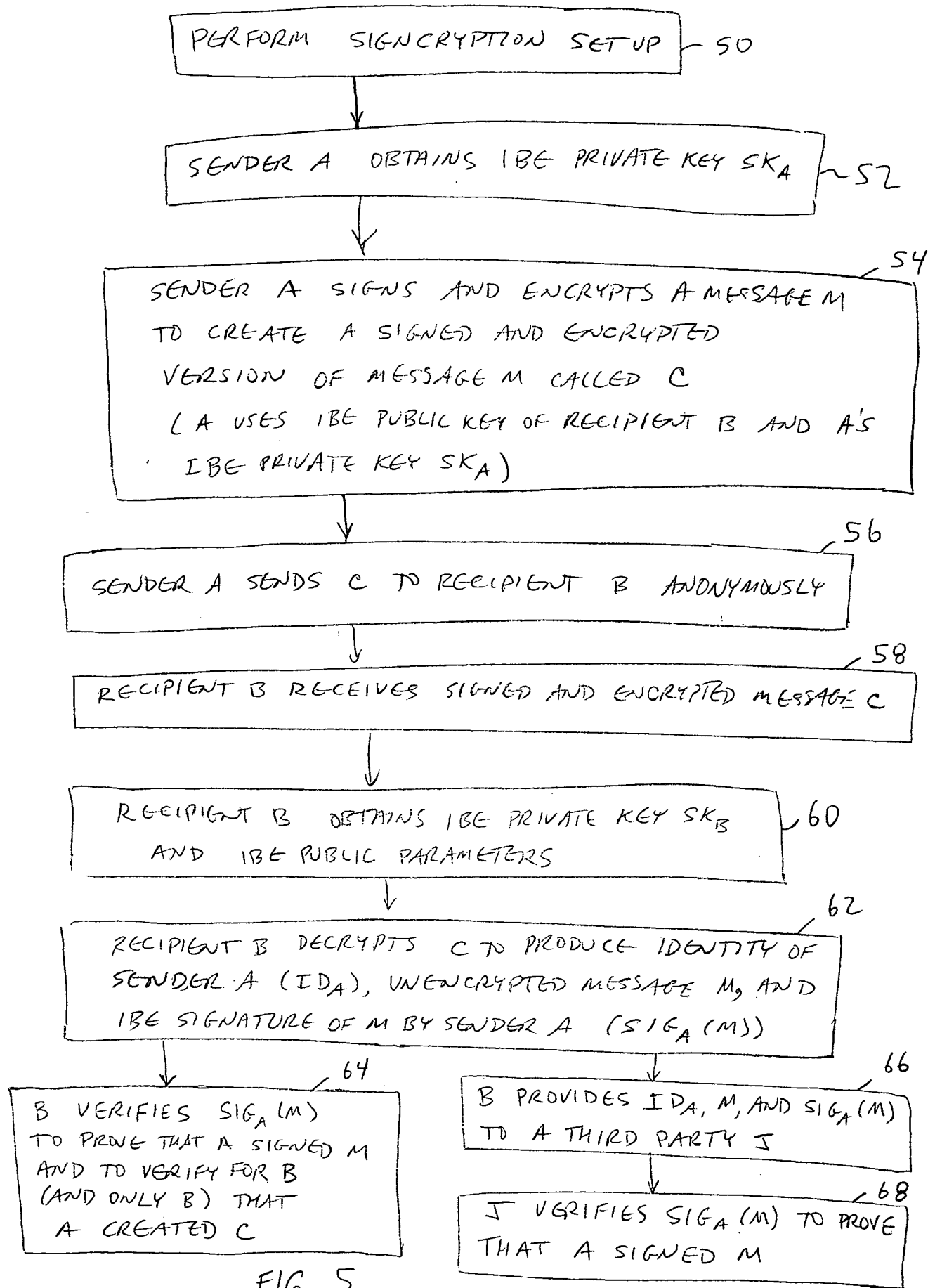


FIG. 5

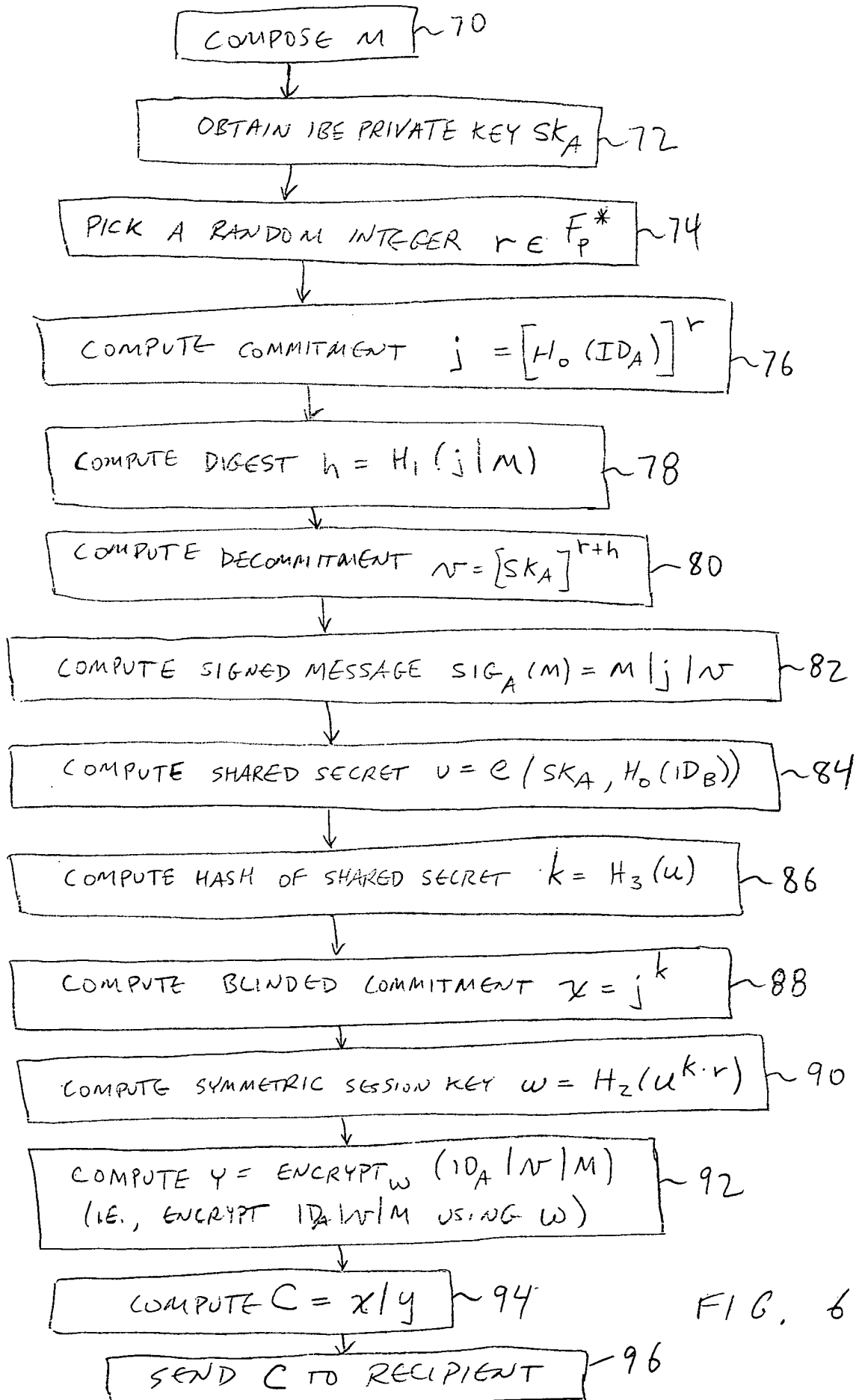


FIG. 6

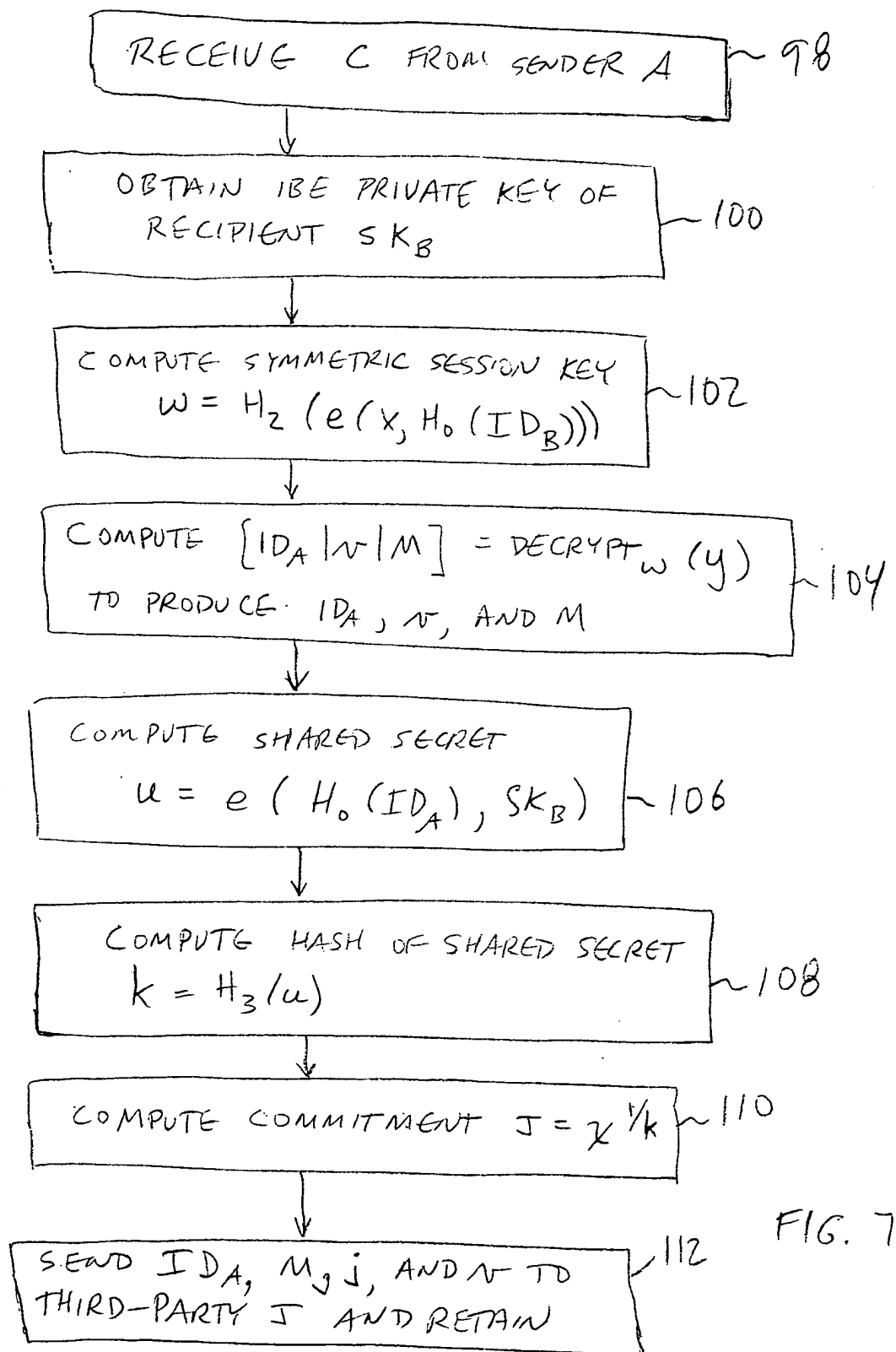


FIG. 7

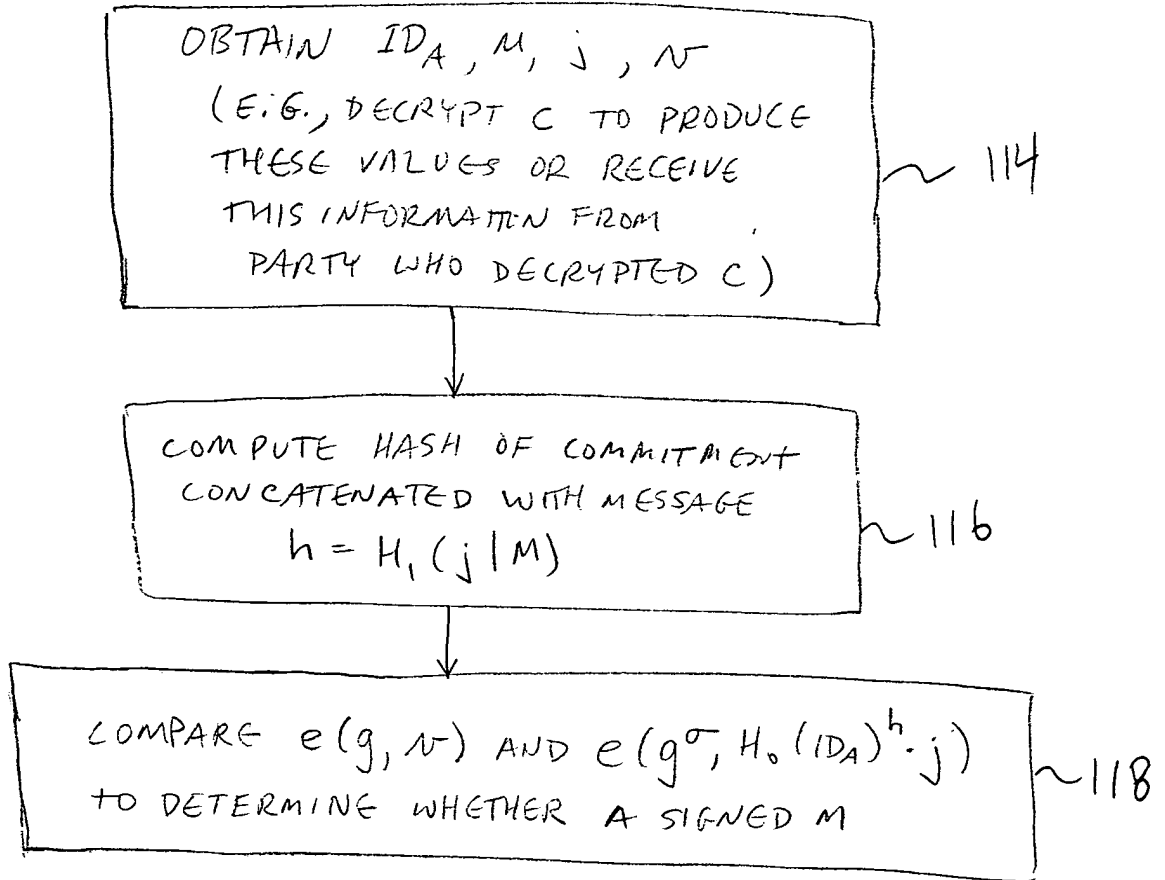


FIG. 8